Compte Rendu du TP9
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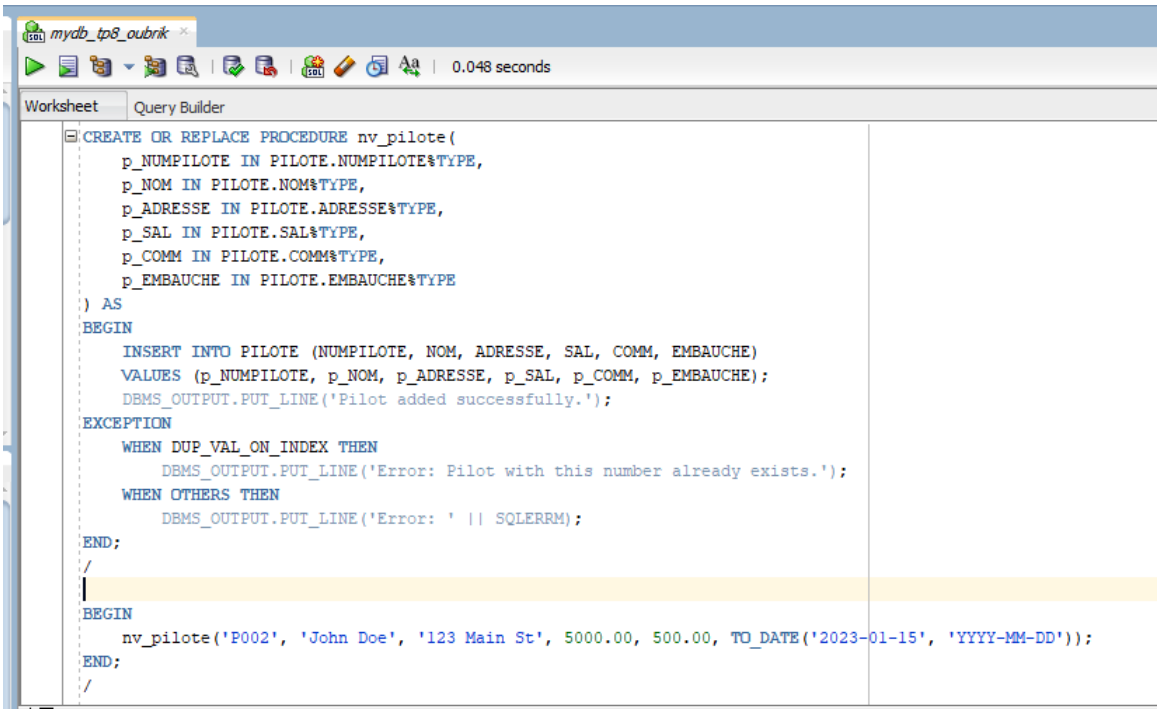
Objectifs du TP9

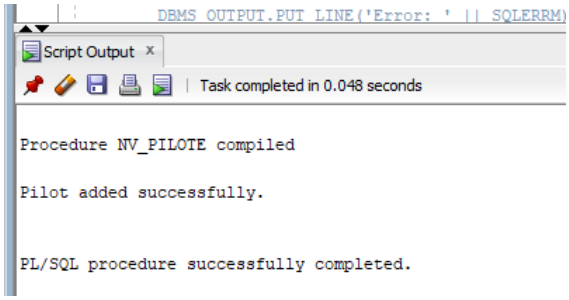
Le TP9 vise à approfondir les concepts de gestion des bases de données relationnelles avec des exercices pratiques sur :

- Création et gestion de procédures stockées.
- Développement de fonctions stockées.
- Implémentation de déclencheurs.
- Utilisation de packages et transactions.

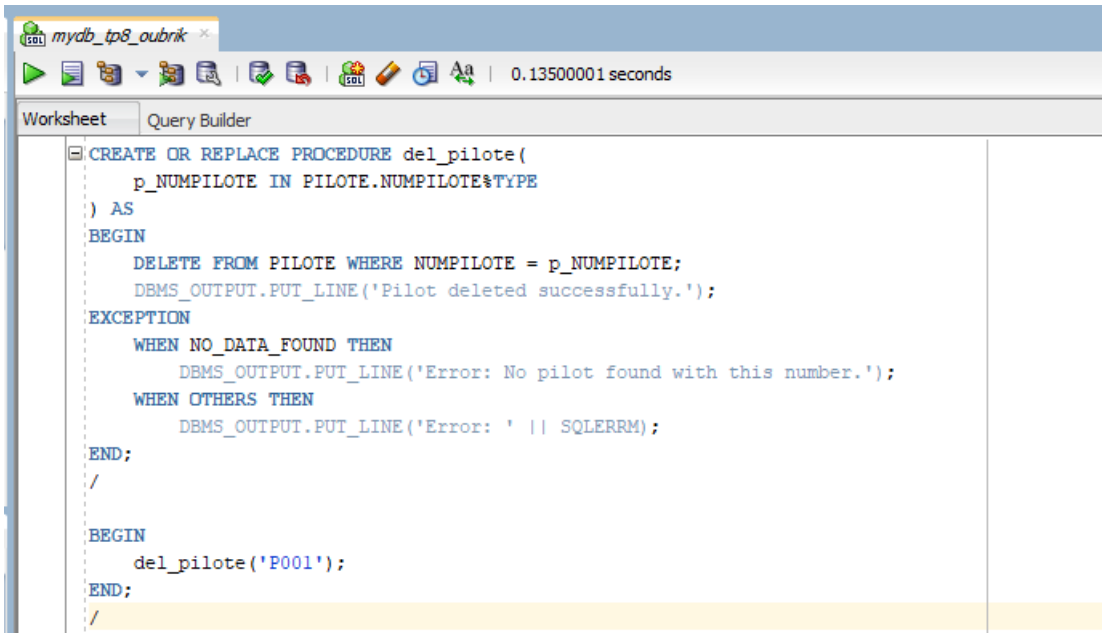
Procédures Stockées

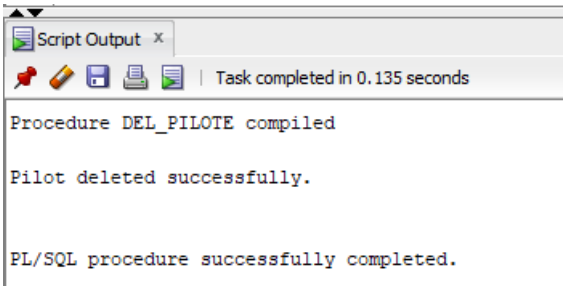
1. nv_pilote :



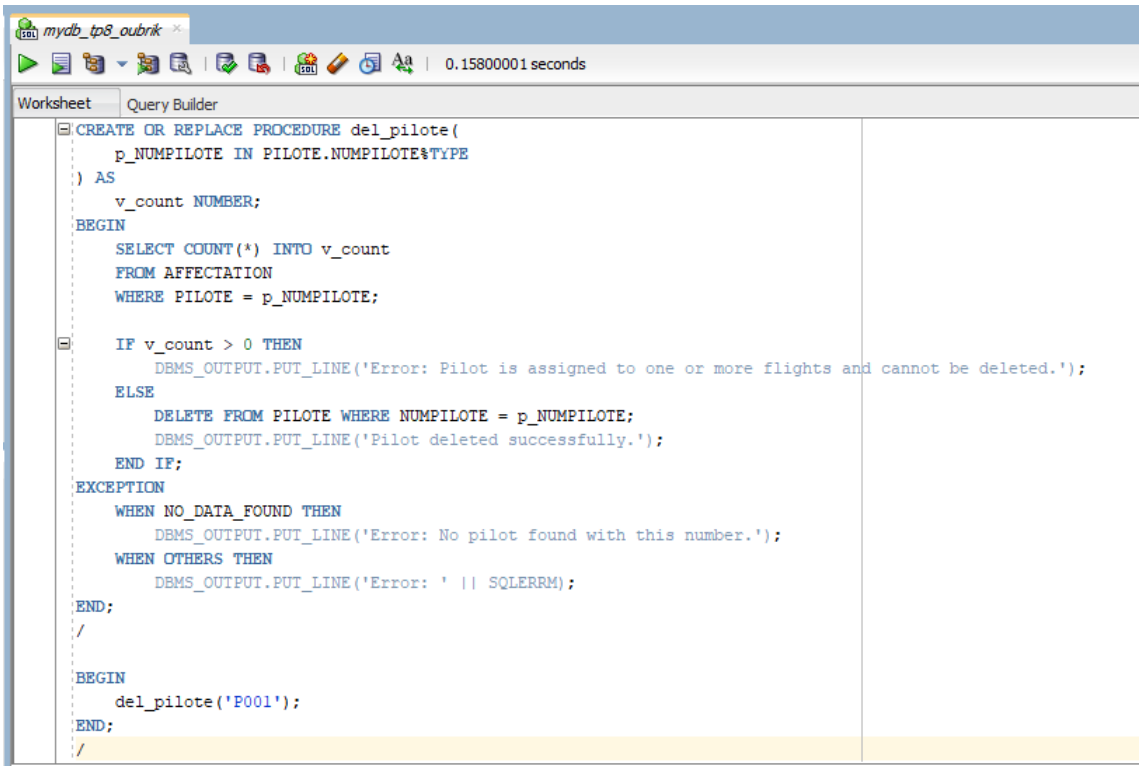


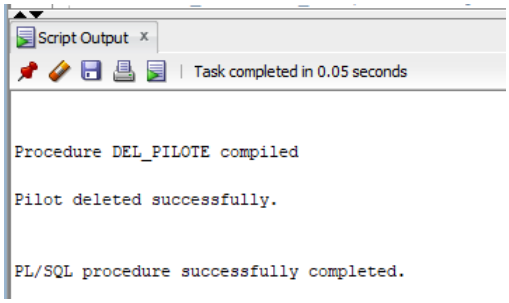
2. del_pilote :


mydb_tp8_oubrik
0.13500001 seconds
Worksheet
Query Builder
CREATE OR REPLACE PROCEDURE del_pilote(
p_NUMPILOTE IN PILOTE.NUMPILOTE%TYPE
) AS
BEGIN
DELETE FROM PILOTE WHERE NUMPILOTE = p_NUMPILOTE;
DBMS_OUTPUT.PUT_LINE('Pilot deleted successfully.');
EXCEPTION
WHEN NO_DATA_FOUND THEN
DBMS_OUTPUT.PUT_LINE('Error: No pilot found with this number.');
WHEN OTHERS THEN
DBMS_OUTPUT.PUT_LINE('Error: ' || SQLERRM);
END;
/
BEGIN
del_pilote('P001');
END;
/


Script Output
Task completed in 0.135 seconds
Procedure DEL_PILOTE compiled
Pilot deleted successfully.
PL/SQL procedure successfully completed.

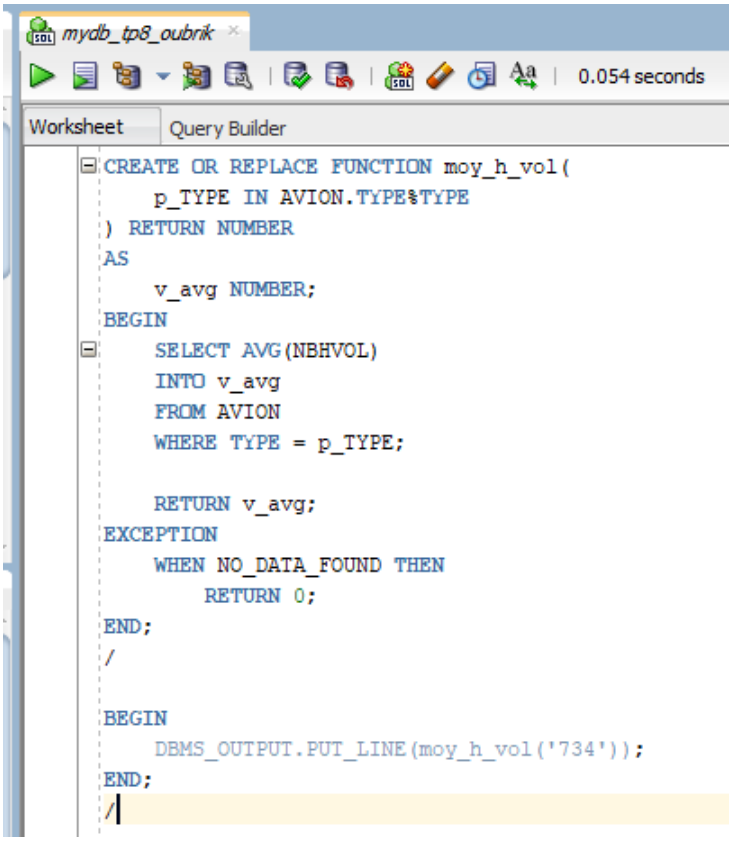
3. Modification de del_pilote :

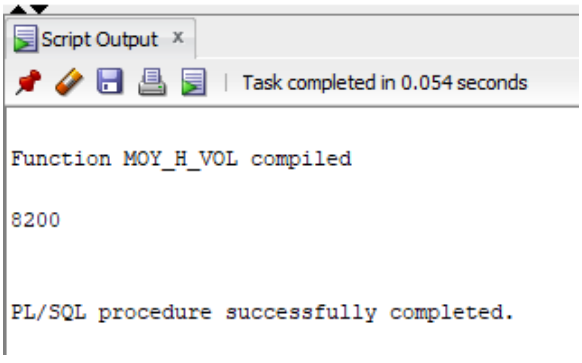




Fonctions Stockées

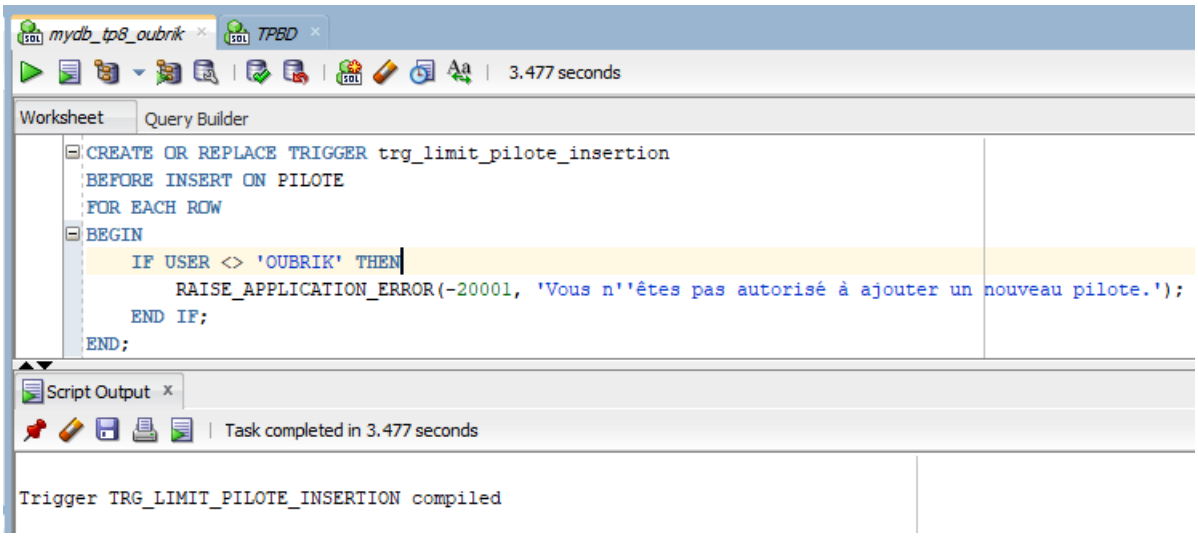
4. fonction moy_h_vol :



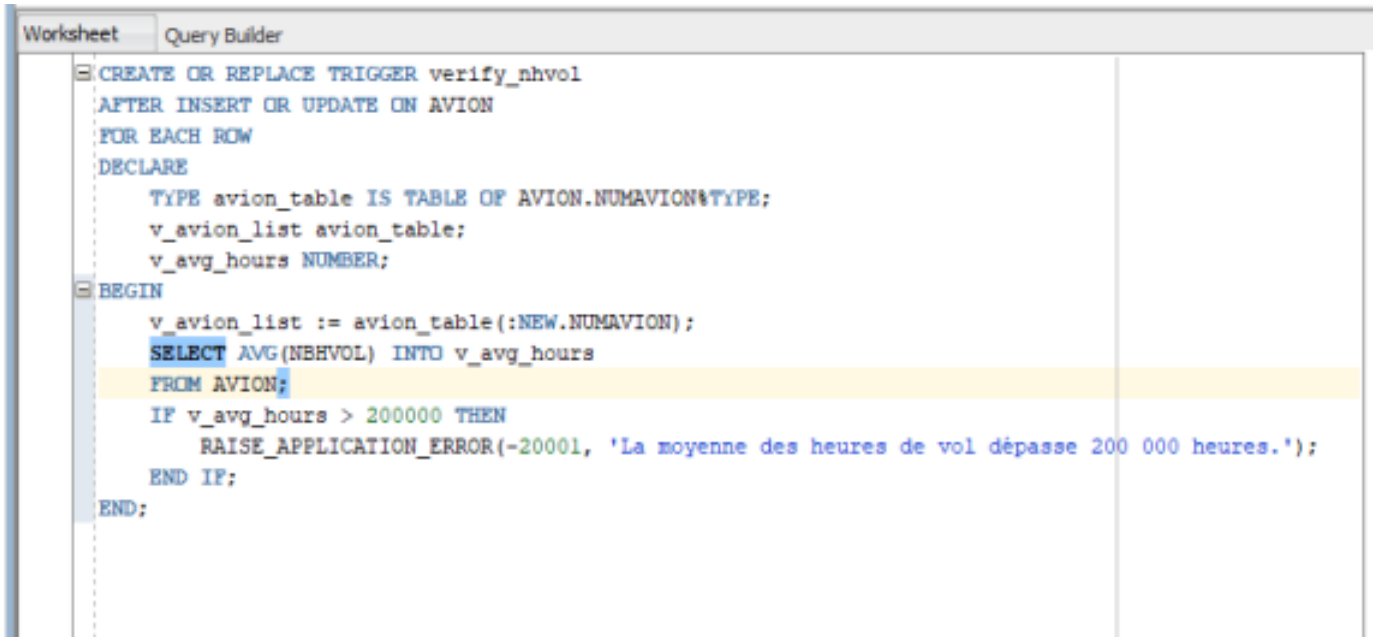


Triggers

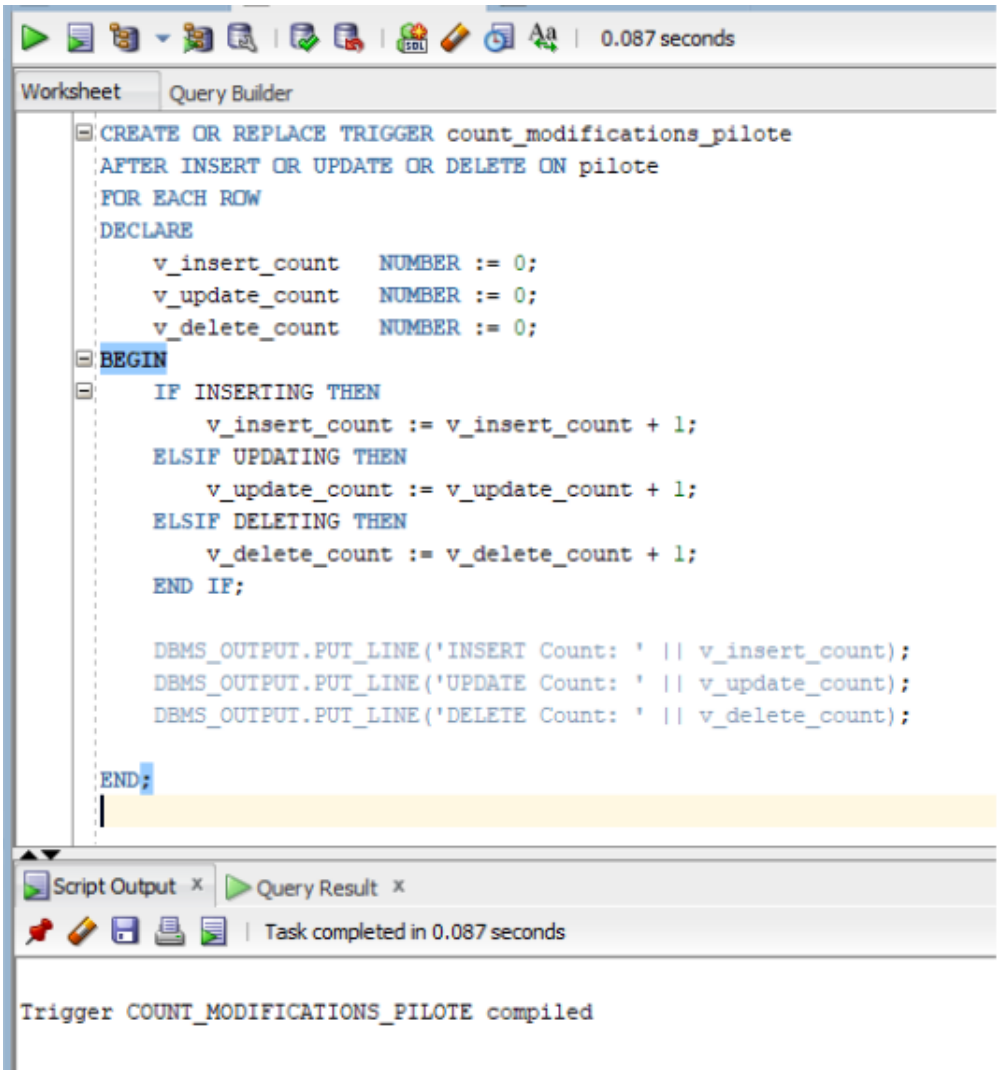
5. Limitation de l'ajout d'un nouveau pilote :



6. trigger verify_nhvol :

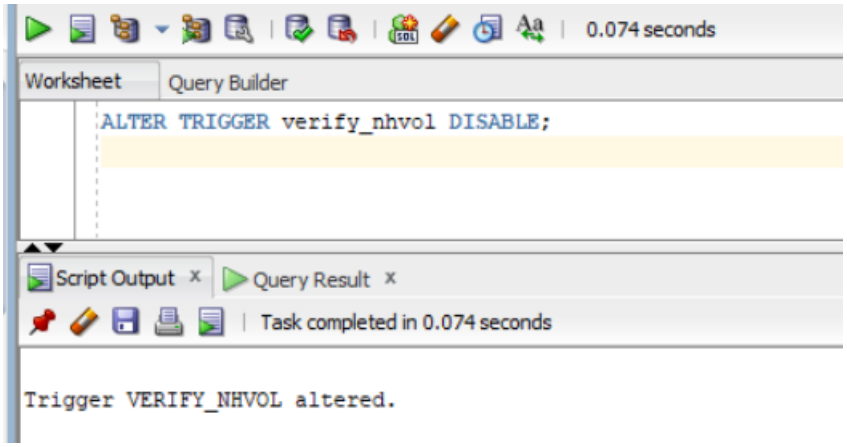


7. comptabilisation du nombre de lignes modifiées :

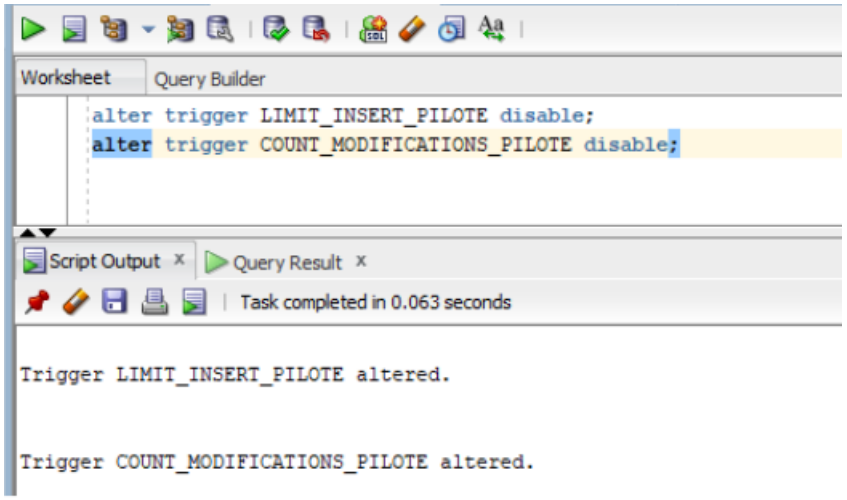


8. Désactivation des triggers :

- Désactivation de trigger verify_nhvol.

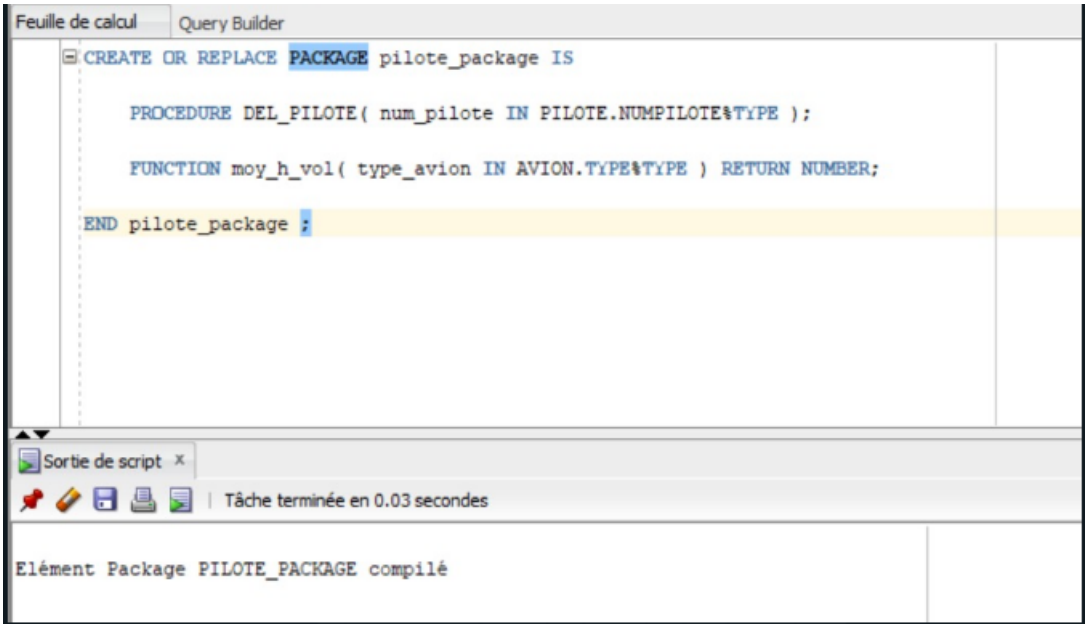


- Désactivation de tous les triggers de la table PILOTE.



Packages

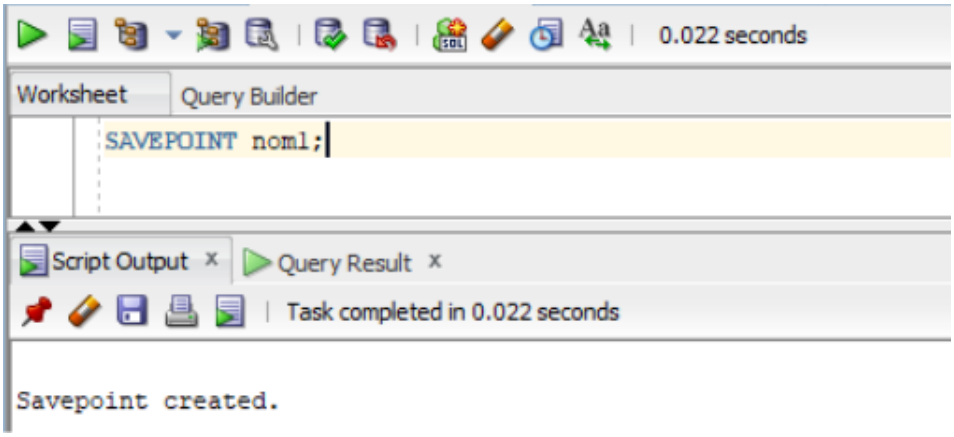
9. package pour suppression d'un pilote et calcul moyen des heures de vol :



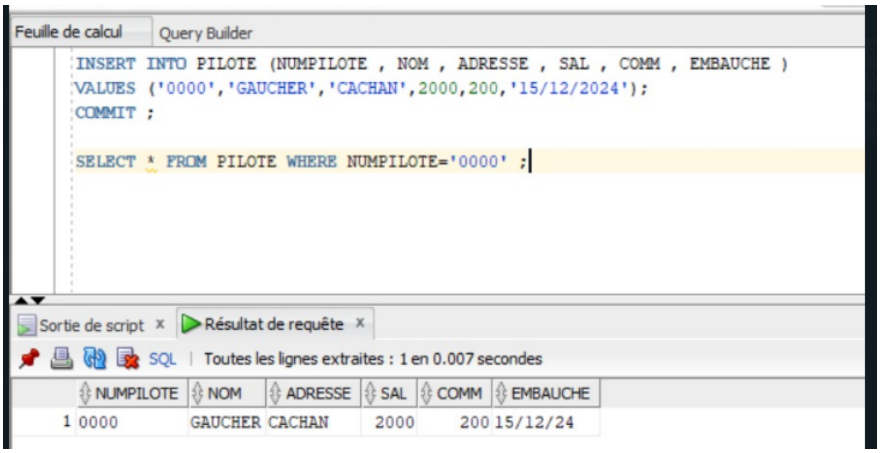
Transactions

10. Visualisation de l'effet d'une transaction :

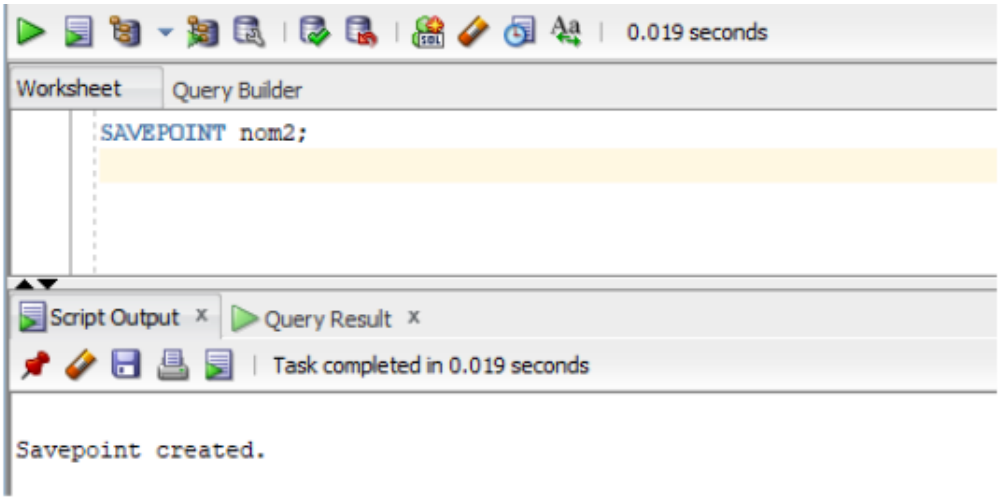
- Création d'un point de sauvegarde : savepoint "nom1";



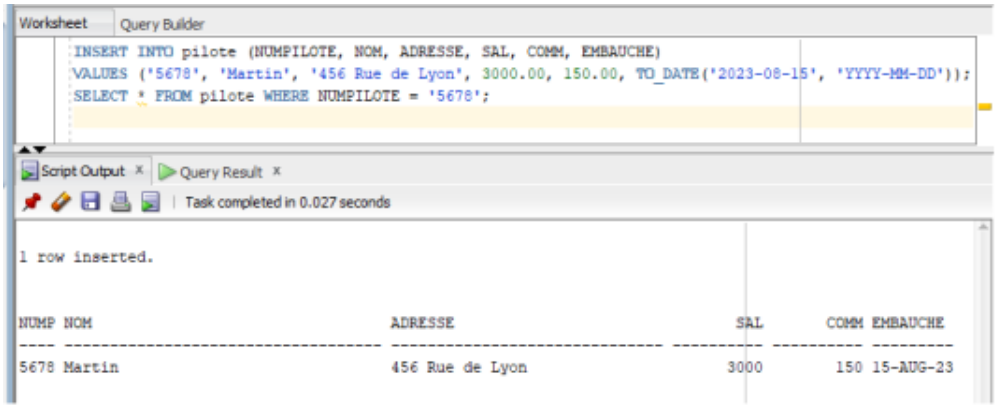
- Insertion d'un pilote, validation de l'insertion. et vérification de son existence.



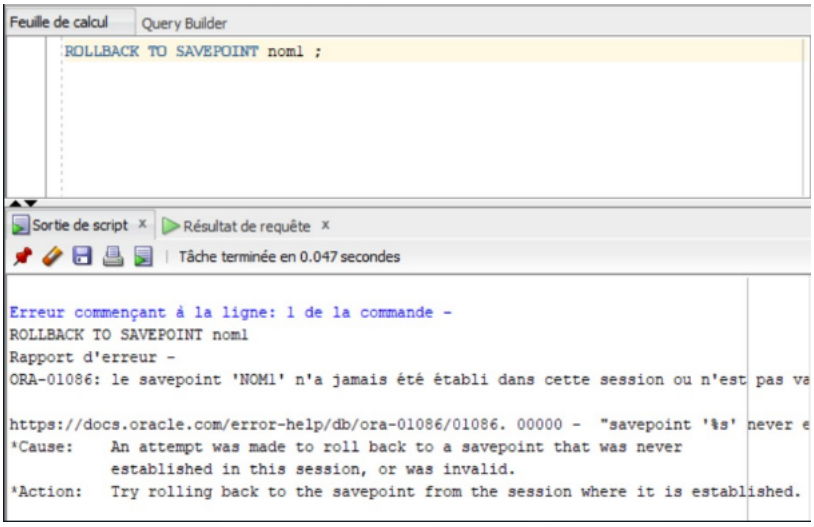
- Création d'un point de sauvegarde : savepoint "nom2";



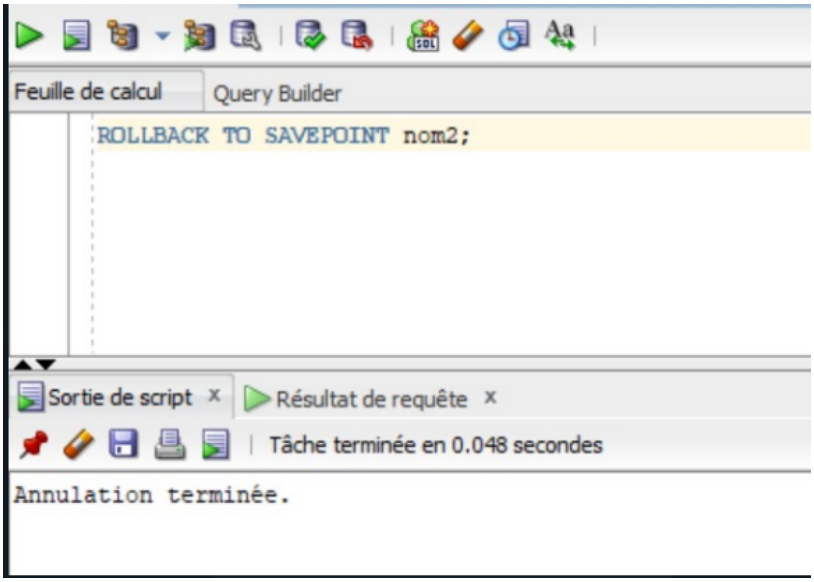
- Insertion d'un autre pilote, et vérification de son existence.



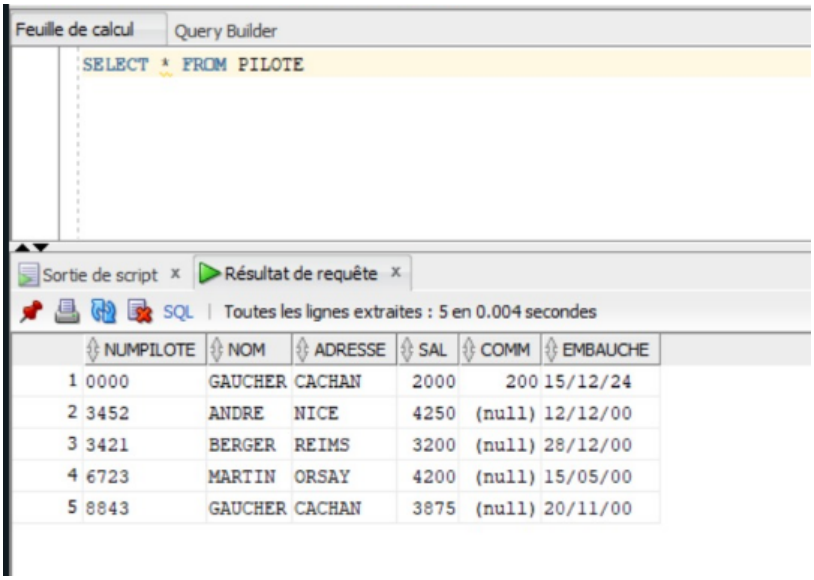
- Retour au savepoint "nom1";



- Retour au savepoint "nom2";



- Sélectionne tous les tuples de la table pilote.



	NUMPILOTE	NOM	ADRESSE	SAL	COMM	EMBAUCHE
1	0000	GAUCHER	CACHAN	2000	200	15/12/24
2	3452	ANDRE	NICE	4250	(null)	12/12/00
3	3421	BERGER	REIMS	3200	(null)	28/12/00
4	6723	MARTIN	ORSAY	4200	(null)	15/05/00
5	8843	GAUCHER	CACHAN	3875	(null)	20/11/00

- Explication du résultat obtenu.

Un commit valide définitivement la transaction en cours et supprime tous les savepoints précédents. C'est pourquoi le rollback vers "nom1" échoue : le point de sauvegarde n'existe plus après le commit.